

SAFETY DATA SHEET

Creation Date 24-Nov-2010

Revision Date 28-Mar-2024

Revision Number 3

1. Identification

Product Name

Lithium thiocyanate hydrate

Cat No.: 11349

CAS No Synonyms

Recommended Use Uses advised against

No information available Laboratory chemicals. Food, drug, pesticide or biocidal product use.

123333-85-7

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Acute dermal toxicity Acute Inhalation Toxicity - Dusts and Mists Category 4 Category 4 Category 4

Label Elements

Signal Word Warning

Hazard Statements

Harmful if swallowed, in contact with skin or if inhaled



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Harmful to aquatic life with long lasting effects Contact with acids liberates very toxic gas

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Lithium thiocyanate hydrate	123333-85-7	>95
Thiocyanic acid, lithium salt	556-65-0	-

4. First-aid measures

	5. Fire-fighting measures	
effects Notes to Physician	Treat symptomatically	
Most important symptoms and	No information available.	
Ingestion	Clean mouth with water. Get medical attention.	
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.	
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	

Suitable Extinguishing Media	Water spray. Carbon dioxide	e (CO 2). Dry chemical. Chemi	cal foam.			
Unsuitable Extinguishing Media	No information available					
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits	No information available					
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available					
Specific Hazards Arising from the Keep product and empty container av		gnition.				
Hazardous Combustion Products Nitrogen oxides (NOx). Carbon mono Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear.	ions for Firefighters		ed or equivalent) and full			
NFPA Health 4	Flammability 1	Instability 1	Physical hazards N/A			
	6. Accidental rele	ease measures				
Personal Precautions Environmental Precautions	See Section 12 for additiona	. Use personal protective equi I Ecological Information. Avoid i into surface water or sanitary	d release to the environment.			
Methods for Containment and Clea Up	n Sweep up and shovel into se environment.	uitable containers for disposal	. Do not let this chemical enter the			
	7. Handling a	nd storage				
Handling	Avoid contact with skin and seek immediate medical ass		o not ingest. If swallowed then			
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents. Strong acids.					
8. E	xposure controls /	· · · · · · · · · · · · · · · · · · ·				
Exposure Guidelines		in any hazardous materials wi on specific regulatory bodies.	th occupational exposure			
Engineering Measures	Ensure adequate ventilation	, especially in confined areas.				
Personal Protective Equipment						
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.					

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
Recommended Filter type:	Particulates filter conforming to EN 143.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties

	J - - - - - - - - - -	
Physical State	Solid	
Appearance	Colorless	
Odor	No information available	
Odor Threshold	No information available	
рН	No information available	
Melting Point/Range	No data available	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation Rate	Not applicable	
Flammability (solid,gas)	No information available	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	No information available	
Vapor Density	Not applicable	
Specific Gravity	No information available	
Solubility	No information available	
Partition coefficient; n-octanol/water	No data available	
Autoignition Temperature	No information available	
Decomposition Temperature	> 200°C	
Viscosity	Not applicable	
Molecular Formula	C Li N S . x H2 O	
Molecular Weight	65.02	

10. Stability and reactivity

Reactive Hazard	Yes	
Stability	Hygroscopic.	
Conditions to Avoid	Incompatible products. Exposure to moist air or water.	
Incompatible Materials	Strong oxidizing agents, Strong acids	
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products	No information available vell as chronic effects from short and long-term exposure
Delayed and inimediate effects as w	ven as chronic enects nom short and long-term exposure
Irritation	No information available

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Lithium thiocyanate hydrate	123333-85-7	Not listed	Not listed	Not listed	Not listed	Not listed
Thiocyanic acid, lithium salt	556-65-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effect	S	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	nd No information available				
Endocrine Disruptor	r Information	No information available				
Other Adverse Effect	ts	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity

Do not empty into drains. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.	
Bioaccumulation/ Accumulation	No information available.	
Mobility	Will likely be mobile in the environment due to its water solubility.	
	13. Disposal considerations	

Waste Disposal MethodsChemical waste generators must determine whether a discarded chemical is classified as a
hazardous waste. Chemical waste generators must also consult local, regional, and
national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information				
DOT	Not regulated			
DOT TDG	Not regulated			
IATA	Not regulated			
IMDG/IMO	Not regulated			
15. Regulatory information				

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Lithium thiocyanate hydrate	123333-85-7	-	-	-
Thiocyanic acid, lithium salt	556-65-0	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Lithium thiocyanate hydrate	123333-85-7	-	-	-	-	-		-	-	-
Thiocyanic acid, lithium salt	556-65-0	-	Х	209-135-1	-	-		-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable		
Clean Air Act	Not applicable		
OSHA - Occupational Safety and Health Administration	Not applicable		

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component CAS No REACH (1907/2006) -REACH (1907/2006) -**REACH Regulation (EC** 1907/2006) article 59 -Annex XIV - Substances Annex XVII - Restrictions Subject to Authorization on Certain Dangerous Candidate List of Substances of Very High Substances Concern (SVHC) Lithium thiocyanate hydrate 123333-85-7 ---Thiocyanic acid, lithium salt 556-65-0 ---

Not applicable

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Lithium thiocyanate hydrate	123333-85-7	Not applicable	Not applicable	Not applicable	Not applicable
Thiocyanic acid, lithium salt	556-65-0	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	Basel Convention (Hazardous Waste)
Lithium thiocyanate hydrate	123333-85-7	Not applicable	Not applicable	Not applicable	Not applicable
Thiocyanic acid, lithium salt	556-65-0	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date Revision Date Print Date Revision Summary	24-Nov-2010 28-Mar-2024 28-Mar-2024 New emergency telephone response service provider.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS